

PROJECT 10073 RECORD CARD

| | | | | | |
|---|--|---|--|---|--|
| 1. DATE 4 July 1963 | | 2. LOCATION Hamilton, Montana | | 12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical | |
| 3. DATE-TIME GROUP Local 935PM GMT 05/0435Z | | 4. TYPE OF OBSERVATION <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar | | | |
| 5. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 6. SOURCE civilian | | | |
| 7. LENGTH OF OBSERVATION not reported | | 8. NUMBER OF OBJECTS one | | 9. COURSE easterly | |
| 10. BRIEF SUMMARY OF SIGHTING Observers looking at Moon and Stars. Observed object that looked like star in flight. Compared object to ECHO. | | 11. COMMENTS At 3.55Z ECHO crossed the Equator heading NE at 240 deg W (120 deg E) and would reach it's orbital peak 26.2 min later about 150 deg W (40 deg to the west of Montana. ECHO would be heading SE at the time of the sighting and visible toward the West from the sighting position. Case evaluated as ECHO I. | | | |
| 12. Other Satellite ECHO I <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown | | | | | |

ANANDA
BUILDING MATERIALS
COMPANY

YARDS SERVING WESTERN MONTANA

Post Mail Sec. JUL 29 1953

Hamilton, Montana

National Space Administration
Washington, D. C.

Dear Sirs:

I am inquiring into what I viewed at 9:35P.M. on the evening of the 4th of July. A friend and myself were watching a fireworks display with binoculars from a distance. When they were completed I asked him if he had ever looked at the moon through binoculars and he said that he hadn't. He was quite surprised to see the moon jump up as close as it did with 7 x 50 binoculars. He then asked me how the stars looked with them, as I had the glasses again at that time, and I said I'doubt if it made them any more than just brighter. I picked out what I thought was the brightest star at random and viewed it through the binoculars. I thought my eyes were deceiving me, but after close observation, the star that I had picked out was moving steadily across the sky. He watched and said yess, that it was moving and I could then make it out with my naked eye. It was on an approximate 45° tangent in relationship with the horizon and moving from West to East in the Southern Hemisphere. It looked exactly like the the balloon that in an earlier year reflected light back to earth. I had heard nox mention of this on the radio or read of it in the paper, so I would be interested in knowing what this object was, that is if you don't mind going to the trouble of checking back. I thought that this was pure luck the way that I happened to spot it in the first place. Curiosity has nagged at me until I had to write this letter and find out what it was I was looking at. Thank you very much for the trouble it might take you to find this information out for me.

Sincerely yours,

[Redacted signature]

65 03552 240.85
SE → 30°N → -137.52
→ 103.44
OK

SUBJECT: Request for UFO Information (~~CONFIDENTIAL~~)

1 August 1963

1. Reference the attached letter from ~~XXXXXXXXXX~~ requesting information on unidentified flying objects. This letter is forwarded to your office for whatever action you deem necessary.

2. As [REDACTED] does not give his exact location at the time of the sighting, it is impossible to confirm that he saw Echo. Description of the object, however, does suggest that the sighting was caused by Echo.

3. It is suggested that a future Echo schedule for Mr. [REDACTED] area be sent to him.

FOR THE COMMANDER

ERIC T. de JONCKHEERE
Colonel, USAF
Deputy for Technology and Subsystems

1 Atch
Ltr fm Mr.

August 13, 1963

Dear Mr. ~~XXXXXXXXXX~~:

Your letter to NASA concerning an unidentified aerial sighting has been forwarded to this office.

As you did not give the exact location at the time of the sighting, it is impossible to confirm that you saw a specific satellite, however, your description of the object does suggest that the sighting was caused by Echo.

Echo predictions for Helena, Montana, are attached. I hope this information will be of some help to you.

Sincerely,

Attachment

*Echo Predictions
13-19 Aug 63*

MASTON M. JACKS
Major, USAF
Public Information Division
Office of Information

Mr. ~~XXXXXXXXXX~~

~~XXXXXXXXXX~~
Hamilton, Montana

| SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES | | | | | | | | | | | |
|--|--------------|--------|---------------|----------------|-------------|----------------|---------------|----------------|-------------|----------------|--------|
| EQUATOR S-N | | LAT. | SOUTH-NORTH | | HT. (MI) | BEAR. (N-E) | NORTH-SOUTH | | HT. (MI) | BEAR. (N-E) | |
| TIME (UT) | LONG. (W) | | TIME CORR. | LONG. CORR. | | | TIME CORR. | LONG. CORR. | | | |
| JUNE 30, 1963 | | | | | | | | | | | |
| 1 | 11.0 | 177.04 | 47.5 | 26.7 | -83.21 | 883 | 90.0* | 26.8 | -83.26 | 883 | 90.0* |
| 3 | 6.0 | 206.95 | 45.0 | 21.7 | -61.09 | 813 | 72.2* | 32.0 | -105.34 | 955 | 107.8* |
| 5 | 1.1 | 236.05 | 40.0 | 17.7 | -45.86 | 764 | 60.7* | 36.3 | -120.48 | 1010 | 119.4* |
| 6 | 56.2 | 215.17 | 35.0 | 14.8 | -36.22 | 731 | 54.0 | 39.5 | -130.03 | 1047 | 126.1* |
| 8 | 51.2 | 234.26 | 30.0 | 12.4 | -28.86 | 707 | 49.4 | 42.4 | -137.30 | 1077 | 130.7* |
| 10 | 46.3 | 323.39 | 20.0 | 8.0 | -17.49 | 674 | 43.8 | 47.6 | -148.46 | 1121 | 136.5 |
| 12 | 41.4 | 352.50 | 0. | 0. | 0. | 655 | 40.0 | 51.1 | -165.51 | 1161 | 140.3 |
| 14 | 36.5 | 21.42 | -20.0 | -8.0 | 17.44 | 691 | 43.8 | -48.1 | 148.32 | 1141 | 136.5 |
| 16 | 31.5 | 50.73 | -30.0 | -12.4 | 28.84 | 731 | 49.4 | -42.9 | 137.17 | 1105 | 130.7 |
| 18 | 26.6 | 79.84 | -40.0 | -14.7 | 36.20 | 759 | 54.0* | -40.0 | 129.91 | 1079 | 126.1* |
| 20 | 21.7 | 103.95 | -45.0 | -17.0 | 45.81 | 796 | 60.7* | -36.7 | 120.37 | 1045 | 119.4* |
| 22 | 16.8 | 138.06 | -47.5 | -21.4 | 61.04 | 849 | 72.2* | -32.4 | 105.25 | 993 | 107.8* |
| | | | -47.5 | -27.0 | 83.14 | 921 | 90.0* | -27.0 | 83.19 | 921 | 90.0* |
| JULY 1, 1963 | | | | | | | | | | | |
| 0 | 11.8 | 167.17 | 47.5 | 26.8 | -83.23 | 868 | 90.0* | 26.7 | -83.28 | 868 | 90.0* |
| 2 | 6.9 | 196.28 | 45.0 | 21.6 | -61.11 | 800 | 72.2* | 31.9 | -105.37 | 940 | 107.8* |
| 4 | 2.0 | 225.39 | 40.0 | 17.7 | -45.88 | 752 | 60.7 | 36.1 | -120.52 | 996 | 119.4* |
| 5 | 57.0 | 254.50 | 35.0 | 14.8 | -36.24 | 721 | 54.0 | 39.3 | -130.07 | 1035 | 126.1* |
| 7 | 52.1 | 273.61 | 30.0 | 12.4 | -28.88 | 698 | 49.4 | 42.2 | -137.34 | 1066 | 130.7* |
| 9 | 47.2 | 352.72 | 20.0 | 8.0 | -17.50 | 664 | 43.8 | 47.0 | -148.51 | 1113 | 136.5 |
| 11 | 42.3 | 381.83 | 0. | 0. | 0. | 655 | 40.0 | 51.1 | -165.57 | 1160 | 140.3 |
| 13 | 37.4 | 10.94 | -20.0 | -8.0 | 17.46 | 697 | 43.8 | -48.3 | 148.37 | 1149 | 136.5 |
| 15 | 32.5 | 40.05 | -30.0 | -12.5 | 28.86 | 741 | 49.4 | -43.0 | 137.12 | 1116 | 130.7 |
| 17 | 27.6 | 69.16 | -40.0 | -14.8 | 36.22 | 771 | 54.0* | -40.1 | 129.94 | 1081 | 126.1* |
| 19 | 22.7 | 98.27 | -45.0 | -17.1 | 45.84 | 809 | 60.7* | -36.9 | 120.33 | 1059 | 119.4* |
| 21 | 17.8 | 127.38 | -47.5 | -21.4 | 61.07 | 863 | 72.2* | -32.5 | 105.21 | 1007 | 107.8* |
| 23 | 12.9 | 156.49 | -47.5 | -27.1 | 83.11 | 936 | 90.0* | -27.1 | 83.16 | 936 | 90.0* |
| JULY 2, 1963 | | | | | | | | | | | |
| 1 | 7.0 | 214.51 | 40.0 | 17.7 | -45.90 | 752 | 60.7* | 36.0 | -120.56 | 990 | 119.4* |
| 3 | 2.1 | 243.62 | 35.0 | 14.8 | -36.26 | 710 | 54.0 | 39.2 | -130.12 | 1020 | 126.1* |
| 5 | 53.0 | 272.73 | 30.0 | 12.4 | -28.90 | 689 | 49.4 | 42.0 | -137.39 | 1053 | 130.7* |
| 7 | 48.0 | 301.84 | 20.0 | 8.0 | -17.52 | 663 | 43.8 | 47.1 | -148.57 | 1103 | 136.5 |
| 9 | 43.1 | 331.95 | 0. | 0. | 0. | 657 | 40.0 | 56.8 | -165.63 | 1158 | 140.3 |
| 11 | 38.2 | 0.26 | -20.0 | -8.0 | 17.48 | 705 | 43.8 | -48.6 | 148.21 | 1154 | 136.5 |
| 13 | 33.3 | 29.37 | -30.0 | -12.5 | 28.88 | 752 | 49.4 | -43.3 | 137.07 | 1126 | 130.7 |
| 15 | 28.4 | 58.48 | -40.0 | -14.9 | 36.24 | 783 | 54.0* | -40.3 | 129.82 | 1103 | 126.1 |
| 17 | 23.5 | 87.59 | -45.0 | -17.2 | 45.86 | 822 | 60.7* | -37.0 | 120.29 | 1072 | 119.4* |
| 19 | 18.6 | 116.70 | -47.5 | -21.4 | 61.09 | 879 | 72.2* | -32.7 | 105.17 | 1023 | 107.8* |
| 21 | 13.7 | 145.81 | -47.5 | -27.2 | 83.09 | 952 | 90.0* | -27.3 | 83.13 | 952 | 90.0* |
| JULY 3, 1963 | | | | | | | | | | | |
| 0 | 8.6 | 174.52 | 47.5 | 26.5 | -83.28 | 837 | 90.0* | 26.5 | -83.33 | 838 | 90.0* |
| 2 | 3.6 | 204.62 | 45.0 | 21.5 | -61.14 | 772 | 72.2* | 31.6 | -105.43 | 909 | 107.8* |
| 4 | 58.7 | 233.73 | 40.0 | 17.8 | -45.92 | 729 | 60.7 | 35.8 | -120.59 | 966 | 119.4* |
| 6 | 53.8 | 262.84 | 35.0 | 14.8 | -36.28 | 701 | 54.0 | 39.0 | -130.16 | 1006 | 126.1* |
| 8 | 48.8 | 291.95 | 30.0 | 12.4 | -28.92 | 682 | 49.4 | 41.8 | -137.44 | 1040 | 130.7* |
| 10 | 43.9 | 321.06 | 20.0 | 8.0 | -17.54 | 659 | 43.8 | 46.9 | -148.62 | 1093 | 136.5 |
| 12 | 39.0 | 350.17 | 0. | 0. | 0. | 659 | 40.0 | 56.6 | -165.69 | 1156 | 140.3 |
| 14 | 34.0 | 14.68 | -20.0 | -8.1 | 17.51 | 713 | 43.7 | -48.8 | 148.15 | 1159 | 136.5 |
| 16 | 29.1 | 43.79 | -30.0 | -12.5 | 28.92 | 763 | 49.4* | -43.5 | 137.02 | 1135 | 130.7 |
| 18 | 24.2 | 72.90 | -40.0 | -14.9 | 36.26 | 795 | 54.0* | -40.5 | 129.77 | 1114 | 126.1 |
| 20 | 19.3 | 102.01 | -45.0 | -17.3 | 45.88 | 836 | 60.7* | -37.2 | 120.24 | 1084 | 119.4 |
| 22 | 14.4 | 131.12 | -47.5 | -21.4 | 61.11 | 893 | 72.2* | -32.8 | 105.13 | 1037 | 107.8* |
| 24 | 9.4 | 160.23 | -47.5 | -27.4 | 83.05 | 967 | 90.0* | -27.4 | 83.10 | 967 | 90.0* |

| SATELLITE 1960 IOTA 1 FOR OTHER LATITUDES | | | | | | | | | | | |
|--|--------------|--------|---------------|----------------|-------------|----------------|---------------|----------------|-------------|----------------|--------|
| EQUATOR S-N | | LAT. | SOUTH-NORTH | | HT. (MI) | BEAR. (N-E) | NORTH-SOUTH | | HT. (MI) | BEAR. (N-E) | |
| TIME (UT) | LONG. (W) | | TIME CORR. | LONG. CORR. | | | TIME CORR. | LONG. CORR. | | | |
| JULY 4, 1963 | | | | | | | | | | | |
| 1 | 4.4 | 173.33 | 47.5 | 26.4 | -83.30 | 822 | 90.0* | 26.4 | -83.35 | 822 | 90.0* |
| 2 | 59.5 | 222.44 | 45.0 | 21.4 | -61.15 | 759 | 72.2* | 31.5 | -105.46 | 892 | 107.8* |
| 4 | 54.6 | 251.55 | 40.0 | 17.6 | -45.90 | 717 | 60.7 | 35.7 | -120.63 | 949 | 119.4* |
| 6 | 49.6 | 280.66 | 35.0 | 14.7 | -36.25 | 691 | 54.0 | 38.8 | -130.20 | 991 | 126.1* |
| 8 | 44.7 | 309.77 | 30.0 | 12.3 | -28.98 | 674 | 49.5 | 41.6 | -137.48 | 1026 | 130.7* |
| 10 | 39.7 | 338.87 | 20.0 | 8.0 | -17.59 | 655 | 43.8 | 46.7 | -148.67 | 1082 | 136.5 |
| 12 | 34.8 | 7.98 | 0. | 0. | 0. | 662 | 40.0 | 56.3 | -165.75 | 1151 | 140.3 |
| 14 | 29.9 | 37.09 | -20.0 | -8.1 | 17.47 | 723 | 43.7 | -49.0 | 148.09 | 1164 | 136.5 |
| 16 | 24.9 | 66.20 | -30.0 | -12.6 | 28.81 | 776 | 49.4* | -43.7 | 136.26 | 1144 | 130.8 |
| 18 | 20.0 | 95.31 | -35.0 | -15.1 | 36.15 | 809 | 54.0* | -40.7 | 129.72 | 1125 | 126.1 |
| 20 | 15.1 | 124.42 | -40.0 | -18.1 | 45.76 | 851 | 60.7* | -37.4 | 120.19 | 1097 | 119.4 |
| 22 | 10.1 | 153.52 | -45.0 | -22.2 | 60.95 | 909 | 72.2* | -33.0 | 105.09 | 1051 | 107.8* |
| | | | -47.5 | -27.5 | 83.02 | 983 | 90.0* | -27.5 | 83.07 | 983 | 90.0* |
| JULY 5, 1963 | | | | | | | | | | | |
| 0 | 5.2 | 182.63 | 47.5 | 26.3 | -83.32 | 808 | 90.0* | 26.3 | -83.37 | 808 | 90.0* |
| 2 | 0.3 | 211.74 | 45.0 | 21.4 | -61.16 | 747 | 72.2 | 31.4 | -105.49 | 877 | 107.8* |
| 3 | 55.3 | 240.85 | 40.0 | 17.5 | -45.91 | 707 | 60.7 | 35.5 | -120.66 | 934 | 119.4* |
| 5 | 50.4 | 269.96 | 35.0 | 14.7 | -36.25 | 684 | 54.0 | 38.7 | -130.24 | 976 | 126.1* |
| 7 | 45.4 | 299.06 | 30.0 | 12.3 | -28.98 | 668 | 49.5 | 41.5 | -137.52 | 1012 | 130.7* |
| 9 | 40.5 | 328.17 | 20.0 | 8.0 | -17.50 | 652 | 43.8 | 46.5 | -148.72 | 1070 | 136.5 |
| 11 | 35.6 | 357.28 | 0. | 0. | 0. | 665 | 40.0 | 56.1 | -165.80 | 1146 | 140.3 |
| 13 | 30.6 | 76.39 | -20.0 | -8.1 | 17.46 | 733 | 43.7 | -49.2 | 148.04 | 1167 | 136.5 |
| 15 | 25.7 | 105.50 | -30.0 | -12.6 | 28.79 | 788 | 49.4* | -43.9 | 136.91 | 1151 | 130.8 |
| 17 | 20.7 | 134.60 | -35.0 | -15.2 | 36.13 | 822 | 54.0* | -40.9 | 129.65 | 1134 | 126.1 |
| 19 | 15.8 | 163.71 | -40.0 | -18.2 | 45.75 | 865 | 60.7* | -37.6 | 120.14 | 1109 | 119.4 |
| 21 | 10.9 | 192.82 | -45.0 | -22.3 | 60.93 | 924 | 72.2* | -33.1 | 105.05 | 1065 | 107.8* |
| 23 | 5.9 | 221.93 | -47.5 | -27.6 | 82.98 | 998 | 90.0* | -27.6 | 82.93 | 998 | 90.0* |
| JULY 6, 1963 | | | | | | | | | | | |
| 1 | 1.0 | 201.03 | 47.5 | 26.2 | -83.35 | 793 | 90.0* | 26.2 | -83.40 | 793 | 90.0* |
| 2 | 56.0 | 230.14 | 45.0 | 21.3 | -61.17 | 734 | 72.2 | 31.3 | -105.51 | 861 | 107.8* |
| 4 | 51.1 | 259.25 | 40.0 | 17.5 | -45.92 | 697 | 60.7 | 35.4 | -120.70 | 918 | 119.4* |
| 6 | 46.2 | 288.36 | 35.0 | 14.7 | -36.26 | 676 | 54.0 | 38.5 | -130.28 | 960 | 126.1* |
| 8 | 41.2 | 317.46 | 30.0 | 12.3 | -28.98 | 662 | 49.5 | 41.3 | -137.57 | 997 | 130.7* |
| 10 | 36.3 | 346.57 | 20.0 | 8.0 | -17.49 | 650 | 43.8 | 46.3 | -148.77 | 1057 | 136.4 |
| 12 | 31.3 | 15.68 | 0. | 0. | 0. | 670 | 40.0 | 55.9 | -165.86 | 1140 | 140.3 |
| 14 | 26.4 | 44.78 | -20.0 | -8.1 | 17.45 | 744 | 43.7 | -49.5 | 147.98 | 1169 | 136.5 |
| 16 | 21.5 | 73.89 | -30.0 | -12.7 | 28.78 | 801 | 49.4* | -44.1 | 136.85 | 1158 | 130.8 |
| 18 | 16.5 | 103.00 | -35.0 | -15.3 | 36.12 | 837 | 54.0* | -41.2 | 129.61 | 1143 | 126.2 |
| 20 | 11.6 | 132.11 | -40.0 | -18.3 | 45.72 | 881 | 60.7* | -37.8 | 120.09 | 1120 | 119.4 |
| 22 | 6.6 | 161.21 | -45.0 | -22.4 | 60.90 | 941 | 72.2* | -33.3 | 105.00 | 1079 | 107.8* |
| | | | -47.5 | -27.8 | 82.95 | 1014 | 90.0* | -27.8 | 82.90 | 1014 | 90.0* |

MODIFIED ORBITAL ELEMENTS FOR EARTH SATELLITE 1960 IOTA 1

REFERENCE TIME 1963 Y 6 M 22 D 1 H 15.89 M UT
 INCLINATION 47.27 DEG.
 ASCENDING NODE (LONG.) 144.80 DEG. WEST
 PRIME SWEEP INTERVAL ONE DAY -16.94 MIN.
 ARGUMENT OF PERIGEE 336.51 DEG.
 RATE OF CHANGE 0.27848 DEG. PER PERIOD
 ANOMALISTIC PERIOD 115.172 MIN.
 RATE OF CHANGE -0.00018 MIN. PER PERIOD
 ECCENTRICITY 0.05051
 RADIUS OF PERIGEE 4625.9 MILES
 RADIUS OF APOGEE 5118.1 MILES
 RATE OF CHANGE -0.13 MILES PER DAY
 ASCENDING NODE (R.A.) 143.51 DEG.
 RATE OF CHANGE -3.3020 DEG. PER DAY
 LATITUDE OF PERIGEE -17.02 DEG.
 READ-IN EXPECTED MAG. +1